

Serial No.: 10/637,457

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 2 Canceled.

3. (Currently Amended) A method of identifying an internet telephony provisioning entity to an internet telephony device, the method comprising:
storing a pre-provisioning contact and a unique device ID number in a non-volatile memory of the internet telephony device;
receiving a provisioning contact of a provisioning entity assigned to the device at a pre-provisioning server and storing the provisioning contact in association with a unique device ID number assigned to the device;
receiving an inquiry initiated from the device to the pre-provisioning server at the pre-provisioning contact, the inquiry comprising the unique ID number assigned to the device;
responding to the inquiry with a response that includes the provisioning contact that was stored in association with the unique device ID number of the device; and
wherein the steps of receiving an inquiry and the step of responding to the inquiry are performed over a hyper text transport protocol link initiated by the device to the pre-provisioning server; and
~~The method of claim 2, wherein:~~
wherein the step of storing the provisioning contact in conjunction with the unique device ID number comprises:
writing the unique device ID number to a key field of a record in a look-up table; and

Serial No.: 10/637,457

writing the provisioning contact to a binary object field of the record in the look-up table.

4. (Original) The method of claim 3 wherein:

the provisioning contact is a provisioning contact selected from a group of provisioning contacts consisting of a domain name of a provisioning entry point server and a combination of an IP address and port number of a provisioning entry point server; and

the entry point server is a server that provides the device with provisioning information selected from a group of provisioning information consisting of a telephony configuration parameters associated with the device ID number and identification of provisioning servers associated with the device ID number which in turn provide telephony configuration parameters.

5. (Original) The method of claim 4, wherein:

the step of receiving a provisioning contact of a provisioning entity comprises receiving:

the unique device ID number of the device; and
the provisioning contact of the provisioning entity
encapsulated in an IP frame from the provisioning entity.

6. (Original) The method of claim 4, wherein:

the step of receiving a provisioning contact of a provisioning entity comprises receiving:

the unique device ID number of the device; and
the provisioning contact of the provisioning entity
encapsulated in an IP frame from a point of sale system that assigned the provisioning entity to the device.

Serial No.: 10/637,457

Claims 7 - 8 Canceled.

9. (Currently Amended) A pre-provisioning server for identifying an internet telephony provisioning entity to an internet telephony device that has both a unique device ID number and a pre-provisioning contact stored in its non-volatile memory; the pre-provisioning server comprising:

a management application for receiving a provisioning contact of a provisioning entity assigned to the device and storing the provisioning contact in association with a unique device ID number assigned to the device;

a device application for:

receiving an inquiry initiated from the device to the pre-provisioning server at the pre-provisioning contact, the inquiry comprising the unique ID number assigned to the device; and

responding to the inquiry with a response that includes the provisioning contact that was stored in association with the unique device ID number of the device;

a web server application for receiving the inquiry and responding to the inquiry over a hyper text transport protocol link initiated by the device to the pre-provisioning server; and

The pre-provisioning server of claim 8:

further comprising a look-up table comprising a key field and a binary object field; and

wherein the management application stores the provisioning contact in conjunction with the unique device ID number by:

writing the unique device ID number to the key field of a record in the look-up table; and

writing the provisioning contact to the binary object field of the record in

Serial No.: 10/637,457

the look-up table.

10. (Original) The pre-provisioning server of claim 9, wherein:
the provisioning contact is a provisioning contact selected from a group of provisioning contacts consisting of a domain name of a provisioning entry point server and a combination of an IP address and port number of a provisioning entry point server; and

the entry point server is a server that provides the device with provisioning information selected from a group of provisioning information consisting of a telephony configuration parameters associated with the device ID number and identification of provisioning servers associated with the device ID number which in turn provide telephony configuration parameters.

11. (Original) The pre-provisioning server of claim 10, wherein:
the management application receives a provisioning contact of a provisioning entity by receiving:

the unique device ID number of the device; and
the provisioning contact of the provisioning entity
encapsulated in an IP frame from the provisioning entity.

12. (Original) The method of claim 10, wherein:
the management application receives a provisioning contact of a provisioning entity by receiving:

the unique device ID number of the device; and
the provisioning contact of the provisioning entity
encapsulated in an IP frame from a point of sale system that assigned the provisioning entity to the device.

Serial No.: 10/637,457

13. Canceled.

14. (Currently Amended) An internet telephony device comprising:
a non-volatile memory for storing:

a unique device ID number assigned to the device; and

a pre-provisioning contact;

an IP module for communicating with other IP devices over a frame switched network using a network configuration and comprising a network configuration module for obtaining the network configuration from a DHCP server;

an internet telephony provisioning module for:

sending an inquiry to the pre-provisioning server at the pre-provisioning contact stored in the non-volatile memory, the inquiry comprising the unique ID number stored in the non-volatile memory;

receiving a response to the inquiry that includes a provisioning contact;

sending a provisioning inquiry to a provisioning entity associated with the provisioning contact; and

obtaining provisioning information in response to the provisioning inquiry, the provisioning information selected from a group of provisioning information consisting of a telephony configuration parameters associated with the device ID number and identification of provisioning servers associated with the device ID number which in turn provide telephony configuration parameters; and

The internet telephony device of claim 13, wherein:

wherein the internet telephony provisioning module:

sends the inquiry to the pre-provisioning server at the pre-provisioning contact by initiating a hyper text transport protocol link to the pre-provisioning server;
and

receives the response to the inquiry on the hyper text transport protocol link.

Serial No.: 10/637,457

15. (Original) The internet telephony device of claim 14, wherein the provisioning contact is a provisioning contact selected from a group of provisioning contacts consisting of a domain name of a provisioning entry point server and a combination of an IP address and port number of a provisioning entry point server.

16. (Original) The internet telephony device of claim 15, wherein the internet telephony provisioning module:

stores the provisioning contact in the non volatile memory in response to receiving the response that includes a provisioning contact; and

sends the inquiry to the pre-provisioning server at the pre-provisioning contact if the provisioning contact in response to determining that the provisioning contact is not available in the non volatile memory.

17. (Original) The internet telephony device of claim 15, wherein the internet telephony provisioning module:

determines whether telephony provisioning resources are included in a DHCP response provided by the DHCP server; and

sends a provisioning inquiry to a provisioning entity associated with the provisioning contact in response to determining that the DHCP response does not include telephony provisioning resources.

18. (Original) The internet telephony device of claim 17, wherein the internet telephony provisioning module:

stores the provisioning contact in the non volatile memory in response to receiving the response that includes a provisioning contact; and

sends the inquiry to the pre-provisioning server at the pre-provisioning contact in response to determining that the provisioning contact is not available in the non

Serial No.: 10/637,457

volatile memory.

19. Canceled.

20. (Currently Amended) A method of discovering internet telephony provisioning information, the method comprising:

storing a unique device ID number assigned to a device and a pre-provisioning contact in a non volatile memory;

obtaining a network configuration from a DHCP server; and

using the network configuration to:

send an inquiry to a pre-provisioning server at the pre-provisioning contact, the inquiry comprising the unique ID number;

receiving a response to the inquiry that includes a provisioning contact;

sending a provisioning inquiry to a provisioning entity associated with the provisioning contact; and

obtaining provisioning information in response to the provisioning inquiry, the provisioning information selected from a group of provisioning information consisting of a telephony configuration parameters associated with the device ID number and identification of provisioning servers associated with the device ID number which in turn provide telephony configuration parameters; and

~~The method of claim 19, wherein:~~

wherein the step of sending the inquiry to the pre-provisioning server at the pre-provisioning contact comprises initiating a hyper text transport protocol link to the pre-provisioning server and sending the inquiry on the hyper text transport protocol link; and

the step of receiving the response to the inquiry comprising receiving the response on the hyper text transport protocol link.

Serial No.: 10/637,457

21. (Original) The method of claim 20, wherein the provisioning contact is a provisioning contact selected from a group of provisioning contacts consisting of a domain name of a provisioning entry point server and a combination of an IP address and port number of a provisioning entry point server.

22. (Original) The method of claim 21:
further comprising storing the provisioning contact in the non volatile memory in response to receiving the response that includes a provisioning contact; and
the step of sending the inquiry to the pre-provisioning server at the pre-provisioning contact is performed in response to determining that the provisioning contact is not available in the non volatile memory.

23. (Original) The method of claim 21:
further comprising determining whether telephony provisioning resources are included in a DHCP response provided by the DHCP server; and
the step of sending a provisioning inquiry to a provisioning entity associated with the provisioning contact is performed in response to determining that the DHCP response does not include telephony provisioning resources.

24. (Original) The method of claim 23,
further comprising storing the provisioning contact in the non volatile memory in response to receiving the response that includes a provisioning contact; and
the step of sending the inquiry to the pre-provisioning server at the pre-provisioning contact is performed in response to determining that the provisioning contact is not available in the non volatile memory.